## **IN THE CLAIMS:**

1-4. (Cancelled)

5. (Previously Presented) An apparatus for fabricating a holey optical fiber, comprising:

a preform cover sealing one end of a holey optical fiber preform having a plurality of air holes disposed in a substantially vertical orientation;

a gas supplier for supplying gas into the air holes via the preform cover to prevent the air holes from being distorted

a pressure regulator for controlling the amount of gas supplied from the gas supplier to be constant; and,

a heating means installed at the other end of the holey optical fiber preform for heating the other end of the preform to draw an optical fiber.

- 6. (Original) The apparatus of claim 5, further comprising a fixing rod attached to the top of the preform cover to hold the holey optical fiber preform in a stationary position.
  - 7. (Original) The apparatus of claim 5, wherein the gas is nitrogen.

- 8. (Previously Presented) An apparatus for fabricating a holey optical fiber, comprising:
- a tubular preform having a plurality of air holes disposed in a substantially vertical orientation;
- a sealing means operative to cover the top portion of the tubular preform for receiving a flow of gas at a predetermined pressure;
- a storage means for supplying the gas to the air holes via the preform sealing means to prevent the air holes from being distorted;
- a regulating means for controlling the amount of gas supplied from the storage means to the sealing means to be constant; and,
- a heating means coupled at the other end of the tubular preform for heating the tubular preform while drawing an optical fiber from the tubular preform.
  - 9. (Cancelled).
  - 10. (Original) The apparatus of claim 8, wherein the gas is nitrogen.